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FORAGE FOR RANGE AND RANCH

Bulletin 120

Devoted to the Interest of C ttlemen, Dairymen and all Live-Stock Breeders



Him Pr ni Phalain aleantara

AGGELER & MUSSER SEED CO.

620 South Spring Stret Los Angeles Calif.

MR. CATTLEMAN, READ THIS

s sendly a riger in the Souldwest who has not to some time their greatly in onvener of and ere fred minh loss complace of feed following as ison of light minfall. These periodical losses we believe can be reduced to a minimum by co-ope ation on the part of cattlemen working together to improve the warge are systematic elimination of the undesirable vegetation. On unlained that which is rood and introducing new veget time by planting sends of a users that are known to the rooter similar conditions of the parts of the country and from other morts of the

The parts of the country and from other morts of the fill.

The more than a schedule of the school of the south vest the first class of graines and decreasing that the very high the rest class of graines and decreasing the thirty with the rest class of graines and decreasing the transfer country. It is the sent in the rest is to savigate more to the other than bouilding this great state when to indicate the first scatter was to the assess that the sent a description of the exists of the vote of with grasses that will into the grant state they have be rown with grasses that will into the grant state of stock.

The parts of the grant about a discount of the condition of the grant state of t



of forage Japanese Sugar Cane. 1 permanent Sec page 28. when



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Mana (* 161). (* Sonorin (* 2003). (* 17) (* 1603).

MR. DAIRYMAN AND STOCKMAN, READ, THIS

You want the best as well as the most economically of you can obtain upon a limited acrease. To get this want the crops that will give you the best profit along reatest tonnage for your silo. You also want to passure that will give you best quality and quantity extending over the longest season. You also want the crops best suited to your soil and climatic conditions.

We have given much attention to your requirements along we are sure you will find in this bulletin something suited to your purpose. We also invite you to see our female stration referred to on the preceding page.

POULTRYMEN

To the small stock breeder and poultryman you will find in this bulletin just as much of interest to you as to the large breeder. Read it carefully

HOW TO PLANT SMALL GRASS SEED

TOUTING A SIAND BY THE COURTGAILD SYSTEM

Mr. Stockman:



Segment Planter. plant thing 10 11) rough places.

Plant of the character and the the state of the same and said

THE SHALL RANGE

Marie Into the Holland Miles or made (15 th to we proposed Second Properties in the all the value of the solutions of the so

ticl ind unwarrantid, out III voi expect valuable grass . to grow with less attaction than viold be a via oth crops?

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Napier Grass as a Wind Break

NAPIER

Pennisetum Purpureum

(So our Heamstration 1936 E. All Sal

ight of noistured trity trity trity and trity trity are some start of the start of



The Right Way to Plant Vanier debits

The state of the control of the state of the

For frequent cutting we advise planting twelve inches apart each way; thus one plant to each square foot will quickly fill the space solidly with succulent green feed that may be pastured or cut frequently for hay or green feed for chickens, rabbits or goats.

The grass is also said to possess drouth resistant qualities to a marked degree, but it will thrive best where soil moisture is not lacking.

The grass is also saw to possess drouth resistant qualities to a marked degree but it will thrive best where soil moisture is not lacking.

In a discussion of this grass as found in a state of nature in Tropical Africa the author says:

"It occurs along watercourses and in marshy depressions, but also enters the bush and forest where open spaces afford sufficient light. In rich marsh land it attains a height of 21 feet, while in drier soils it only grows 6 feet high."

During the past year Napier grass has received considenble advertisement. In some cases over enthusiasm has become more or less prevalent that this grass will produce very large crops on practically any type of land and that it requires little or no cultivation. This belief is based upon misapprehension. Plantings made during the past year indicate that results will vary directly with the fertility of the soil, and the amount of moisture. Its habit of growth is like miliet and is about as assiver eadicated as kafir corn. I grows vary apidly and may be cut when 3 or 4 feet high, supplying a hearty sing of green feed on have In nutritive value and paratability. Napie Grass is not excelled by any sing armon-regumnous ceed. When it at the reight of 3 or 4 feet, the stubble is in a tender growing for different feet of such and vigorous armonic the growing season, yielding about 3 tons or more of dry has a growing season, yielding about 3 tons or more of dry has a contract that cut ingle red it has been known.



from Just Pive Months' Growth Dormant Joint

APPER (Continued)

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Timber types of years on pure trus Jupe until

NAPIER DROUTH RESISTANT

tool of the literature of the literature of season's seas

GUINEA GRASS



RHODES GRASS

Write Department of Agriculture, Washington, D. C. \sk for Farmers' Bulletin \o. 1845



Was discovered in South Africa b; Cecil Rhodes in 1898 and developed by him on his farm from a few handfus seed he found wild. It was taken to New Zealand are Australia and is responsible for the development of the sheep industry there. It was named in honor of Mr. Rholes About 12 years ago it was brought to Fords where it herances on a sittle East Coast Coast, and when it in do

records of which rful growth

For first and information we are independent Mr. C. a.

Renfrew, who with Mr. W. D. haitty have 320 arms of

Rhodes Gass growing at Nimol C... The soil is heavy

and salty, to this land writers of the Salton Soc. They
are cutting it six times after the we to speculting.

After two pars' (x) prione with Rhodes Grass, Mr. Ren
from soys of it. It is a plant which thrives well in worm

climate. It is perential in the fitting of the course of the salt 125 d.g. s. It stores down the constant

and will endure much neglect and pasturing. It does not

and will endure much neglect not pasturing. It does not scald in hot weather from excessing moisture like and hi It is highest in protein of any gonss their

Rhod-s Grass will drive out borners of other weeks because of its lense growth. It is easily only being plowed once and let stand for sixty on linear days. It adds humils to the soil.

The lest time to plant Rhodes Grass is Found to the

to Soptember 1st.

The soil most be well prepared by thorough polyerizing then corrugated (see page 4). Broadcast 1 pounds of see per ac e. ging over the field twice portraid south and east and west sowing 7 porous each way. Keep the It grows so apply that the jist outling may be but the sixth week and pasture until after the second cotting

Price per 3b. \$1.00 postpaid. Write for quantity price.

Another har of experience with Rhodes Grass has add c much to its popularity. It might be claiming too much to say that for a permanent pasture field it excels alfalfa, but it is no exaggeration to say it has a wider usefulness, because it will thrive on soil too alkaline for a falfa. It will endure more drouth, more pasturing, more neglect, and will

endure more drouth, more pasturing, more neglect, and will support as many head of stock per acre.

The following extract is from the U.S. Department of Agriculture Bulletin 1048:

Rhodes Grass was first cultivated because of its pasture value. It bears trampling well, recovers quickly after it is eaten down, and is relished by all kinds of live stock. In pastures favorably located, Rhodes Grass will support about two steers to the acre for 9 to 10 months and double that number during the more favorable parts of the year. The quality of hay made from Rhodes Grass is superior to that of most other grasses in that it contains a larger proportion of leaves, while the stems are slender, tender, and sweet, so that the hay is eaten with very little waste. It retains its color well in drying, therefore making an attractive bale for market. bale for market.

Mr. McArthur of this city planted twenty acres near Holtville in Imperial Valley, on soil that was white with alkali, He is very enthusiastic concerning it. He says it is the most valuable grass that has ever come to Southern California, There is no longer any excuse for waste places every acre of alkali soil may now be converted into valuable grazing land.

The following was copied from the Orchard & Farm, contributed by Dr. P. B. Kennedy (Grass and Forage Plant Investigation). University of California:

"Rhodes Grass hay is sweet and tender, and well liked by all classes of stock. It has an attractive appearance and lends itself admirably to baling for market. One to two tons per acre would be considered a poor yield, and might be expected on poor soils with insufficient irrigation, while on good soils with ample irrigation and a long season, eight tons per acre may be reasonably expected. The grass grows very rapidly during the warm summer, thirty days being sufficient to produce a cutting, but as the season advances and the mean temperature becames lower, the growth becomes less rapid. comes less rapid.

10

PASTURE PLANT

"Perhaps to best way to utilize Rhodes Grass is to make two cuttings of hay and then pasture for the remainder of the season. Continuous grazing is not to be recommended, although the plant withstands pasturing well. We have not as yet determined the carrying capacity of Rhodes Grass for California conditions, but the reports from other states are really remarkable. A very conservative estimate would be three cows per acre for eight months.

Since California must from now on produce more forage under intensive cultivation we believe this to be one of the gras (s that we have no salve the instone problem. Experime with econg knowls Grass in In perial Valley has been very like a find the first will be a reliable (dd dam to to a sampling a material valley has been added to to a sampling a material valle around to the sampling and should should be a reliable (dd dam to to a sampling a material valle around should should be supposed to the sampling and should should be supposed to the sampling and should should be supposed to sample a sampling a strong should be supposed to sampling a strong should be supposed to



Just Six Months' Growth from One Joint



Propose Manufes Grass of the Trial recound

3.50 lb postpaid

GRASS HARDING

4. vaper 100. Pleasure accompagner Herman Cruman Bures

Blanks



Phalares Stenoptera.

The briag is devoid of hairy coverings of any kind, and some runtil to be a solution of the briag is devoid of hairy coverings of any kind, and solution to be a solution to be a solution. The briag is devoid of hairy coverings of any kind, and solve from rust, thus tending toward a clean hay and pale table pasturage. During the first season the flower-bearing stems are comparatively few and grow only about two feet high. During the second season a dense leafy mass three feet high is produced with the flower-bearing stems four to six feet high, depending on the rainfall.

Fe ding experiments with calves in co-operation with Lr. order the University Farm at Drivis, show that the minimum content of the grass is very much liked and that it compares a favorably with middle as a face. All classes of stock partial to it.

Small trial plots at Berkeley have also done were also grown is nuch slover.

B. KENNEDY

Winne Bents to Mr. Wall Saymont Il

Composition of Harding Grass

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$\begin{array}{c} \gamma \otimes \gamma \\ \lambda \Gamma_{++} = \gamma \Gamma_{++} = \gamma \Gamma_{++} = \gamma \Gamma_{+} X_{+} \cap \beta C \Gamma_{+} \\ \gamma \Gamma_{++} = \gamma \Gamma_{++} = \gamma \Gamma_{+} X_{+} \cap \beta C \Gamma_{+} \end{array}$		4 5 1 1 1 10 1
		1946/10

The sample was an alient pellot of State transport in the ethor which, non-ever, cid not seem to hoot the cross and reciably. The grass was 6 to 12 inches high the state of ittings tak in luring the growing season when the grass seem to a height of 3 to 4 feet or more on this plat with doubtless show a lower percentage of professional and a high inbre content, but the results of the analysis of the sample submitted show, beyond a doubt, that this trass is extensionally high in protein, fat and mineral matter and grests that it will prove a most valuable addition to the grests that it will prove a most valuable addition to the following foragon plants. Finding transmitted with the entropy of the story palatable to dairy cows, shiep and grows. It shall watch with great interest further diversity. It would alie to dairy cows, and making its menter line with the stock-men of the State. It would alie to me that it is not be alied to our stock interests.

Very truly yours,

(Signature) F. W VOLL,

Prof of Animal Nutrition.

(The King of All Winter Grasses)

For cold districts Phalaris is the grass. It seems to the confidence on the cold, and grows an inch a day or more in the depth of winter. Thoroughly perennial, and makes a valuable and permanent pasture. Can also be made into hay. Plant from March to June at the rate of 2 to 3 rounds per acre. Can also be established from roots planted from May to August, about 18.000, eighteen inches apart, being required to cover an acre. an acre

J. D. THOMSON. Altadena.

Mr. Thomson says also that after cutting his Harding Grass for seed the plot lay dormant until September; then, without any irrigation, it started to grow, and before rainfall made considerable growth.

Dear Sirs:

Regarding the Harding Grass (Phalaris Stenoptara) I wish I could get more. Having a few seeds in 1918 I planted them in 6 times, beginning Oct. 12, the last planting being on March 25th. I am well pleased with the results, although it does not grow very high in our granite soil, it is the only grass I know of that will pay here.

A. LAFORGE, Newcastle, California.



Para Grass he second season without reignful grown in Gran et he better the Angeles

PARA GRASS

ALFILARIA

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AUSTRALIAN SALTBUSH

(Atriplex semibacca:a)



Australian Saltbush Growing by the Roadside

One plant growing or a roadside on clay soil having hat no moisture other than the season's rainfall.

Cardinal points: For range near the coast or interior low-lands where fogs are of frequent occurrence—any kind of soil—endures much alkali—thrives with a minimum of moisture—very succulent during winter, spring and early summer, when it is relished by all stock—becomes parched by heat in late summer, then it is less palatable to stock, but they will thrive if forced by hunger to eat it—it seeds freely. Requires no preparation of soil for seeding. Cannot cut and dry as hay—has one tap root—easily eradicated.

Per Ib. \$1.00 postpaid. Write for quantity price.

The best way to get a stand of Saltbush is to sow broadcast the seed during the months of January and February. Five pounds of seed will sow one acre broadcast.

Saltbush has made a new record which establishes a value. Heretofore, this has not been appreciated, although for years we have tried to make plain that its principal use was for sheep and goat pasture.

Mr. Maurer, who has large interests in the San Clemente

Mr. Maurer, who has large interests in the San Clemente Islands, and maintains large herds of sheep and goats, states that were it not for the several hundred pounds of Saltbush he purchased from us several years ago he would, undoubtedly, have lost his herd. If you have any waste land, sow Saltbush; it may be depended upon when all else fails.

Had the owners of Guadaloupe wisely sown Saltbush seed over their island several years ago they would not have found it necessary to ship their herds to the mainland, entailing much expense and inevitable loss of animals.

Fire may devastate the range and destroy all dry forage in its path, but the Saltbush being perpetually green is absolutely uninjured by fire.

COCKSFOOT

(Da tyle glomerata) also called Orchard Grass

Write for quantity price.

RUSSIAN BROME GRASS

(Bromus inermis)

The state of the s

Print mr 16. 75- nostpaid.

to the authors it is not enter than 12 to

BERMUDA GRASS

(typodon dactylon)

And the control of th

This grass frich the second of the source of editions and the source of the source of

Berniuda Grass also process excellent service in preventing erosion in soils and or binding the same. It will hold together the most arid and loose sands when once set in them. It has no superice in forming a sod on ditch banks

Strictly speaking, Bermuda Grass is not a rotation plant. Because of the difficulty found in enadicating this grass and because of its continuity in growth, its highest use is found in permanent pastures.

When land is to be laid down to Bermuda Grass, the cleaner it is, and the better its condition, the sooner will a stand of the grass be secured, and the greater will be the returns from it.

The seed is not only low in germinating power, but the young plants from the seed grow so slowly that they are much liable to injury from the cowding of weeds unless well cared for

A pound of seed should sow one-fifth to one-third of ar arre. The method of sowing the seed in drills would doubt-less be preferable.

Bermuda Hass is unquestionably the best pasture grass in the south viewed from the standpoint of palatability, productiveness and endurine. There are reasons for believing that in its propers produce the most favored conditions. Sheep can graze upon it from 7 to 9 months in the year according to the locality. In seasons of much discrete the plants will, on some soils, appear to die, but when cain comes that will revive again with surprising quickness. Overflow during he growing season rather encourages the growth of this grass but for a time it usually injures grazing to jure sedimen deposited on it.

Don it.

Bermuda Grass becomes sed bound of it a few seaso is of pasturing or mowing, hence where practicable it is recommended to break it up by ploying and smoothing the ground quit soon thereafter with the harrow; longhing it thus loosens and aerates the soil, breaks up the motted roots and brings new life to the plants.

Per Ib. \$1.00 postpaid. Write for quantity price.

SMILO GRASS

SMILO GRASS

(Oryzopsis Miliacen) Many Flowered Millet
Recommended by the University of California) 1s 2
hardy evergreen peremnial, drought-resistant bunch griss
that thrives on dry hills among rocks and brush and is a
wonderful producer when planted in good soil, but must
have sufficient moisture to got a good root system before the
dreseson. It also thrives under trees.
Smito seed originally name from Southern Europe where
it is considered one of the best forage grasses.
Smilo with not become a pest, as it has fine fibrous roots
high penetrate valideep, but is assily cultivated out.
Smilo grass does not not well planted thick. Plant is
drils about 14 inches, using from 14 to 12 point of soil
per acre. Thin to one every 14 inches in row. What sown
broadcast, sow very thin and hoe out the surplus roots.

Do not prant seed over 14 inch deep. Better selven top
of ground and harrow lightly. When planted deep we have
known Smilo to be in the ground two years, but as soon as
lrought to the surface and got sufficient moisture it came
and made a good stand.
Smilo grass is a slow grower the first year until it gets
good strong root system (unless irrigated), when it is a good
producer and will stand many months without moisture.
When possible plant seed before fall tains, out he
tember and October, so it may get a good root system or
fore the cold weather and will stand the following or
season.

In a small way plant seel in a seed bed, using the same

season.
In a small way plant seed in a seed bed using the same care you would in planting a lawn. At the believing of trainy season transplant to permanent place, setting the roots straight down with the oulb about one inch below the

Strated to the strategy of the



Two years ago a brush fire got started on our hills. Before the rainy season started we sowed several pounds of Smilo seed broadcast, over the burnt stumps. As it did not rain for several weeks we feared the birds would get all the seed. Consequently, on this hill land, that for ages has produced nothing but brush and wild animals, we pastured several head of horses all summer. The last week I rented it for a nice sum to Burt Erwin, lessee of the 9000-acre old Spreckels ranch, who has 35 head of his work horses and mules in my pasture. mules in my pasture.

PASPALUM DILATATUM



Paspalum Dilatatum

Total consequente of experience described

The seed takes making out ever thint in its well as the test of making out ever thint in its well as the test of making a thick sod combine of a more interior cattle of making land. The stock reliable in this is well as a stillalfa. It makes a fine lay free from in word at it is as easy to evaluate as Timethy or as any other banch crass. Ten pounds is sufficient to sow one acre broadcast.

The second year's growth of Pasialim on our trial ground excels all the low bent grasses for mick recovery after drouth.

Per th. 75c postpaid. Write for quantity price.

RED TOP

(Agrostis vulgaris)

Privater to the training the state of the st 75e f.o. herci

PERENNIAL RYE GRASS

(Lolium pe enne)

the state of the s

S. W. J. Miniles per man. Per 10, 50c postpaid.

ITALIAN RYE GRASS

(Lolium Italicum)

es este at the time the level and produces to a court of attribus with a little time being two three also the local dapted in armaner transfer at right violable for rotation of crops. It is specific but defined as a cutto-crop of the right stock Per ID. 35c postnaid. postpaid.

BARLEY AS A WINTER PASTURE

S veral other plants furnish good winter pasture, but none to so valuable as Barley. It affords grazing earlier, more bundantly. It recovers more rapidly after being grazed down. It is more relished by stock and more wholesome. It stands up so that stock can eat it with less dirt or other objectionable matter, and it is never affected by rust. Sown in September it affords good grazing until May, but if the stock are taken off in March, a good crop of grain may be harvested.

For this purpose sow 100 pounds per acre and irrigate if needed.

Barley sown in an alfalfa field during October will make good pasture during the winter when alfalfa is dormant, or it may be grown for hay without injury to the alfalfa.

SWEET CLOVER

MELILOTUS ALBA

Melilotus Alba

21 Reasons for Planting Melilotus Alba

- It is not a weed.

 Like alfalfa it is rich in protein.

 Will not bloat cattle or sheep.

 Equal to alfalfa for pasture.

 Is a great milk producer.

 Furnishes early spring pasture.

 (ontains more protein than red clover.

 Fits well in the crop rotation.

 Is a great soil enriching crop.

 Better than any of the common clovers as a green manure crop. 10. manure crop.
- 11.

- Is a valuable plant for honey bees.

 Prepares the soil for alfalfa.

 Roots are soft and give no trouble in plowing.

 Roots being tender become inoculated more readily than 14. alfalfa.
- Never damages cultivated crops.

 Its roots decay rapidly, adding much nitrogen and humas to the soil.

 Grows and will produce a crop in all parts of the
- United States.
- 38.
- 19,
- Seeds freely in both humid and dry sections. Sweet clover prevents erosion. Will grow under conditions where clover and alfalfa fail:

 - (a) On land too low, too wet, or too alkaline for alfalfa;
 (b) On land too hard and compact for alfalfa;
 (c) On soil too poor for alfalfa, especially where there is lime.
 It is immune to nematodes.

Now read again these twenty-one reasons for planting Melilotus Alba and see wherein it suits your particular case.

Sweet Clover and Alfalfa Hay Compared

The Massachusetts State Station Report for 1894 gives the following analyses of sweet clover at different stages of growth:

Digestion coefficient.

Nitro-

Pro- Crude free ex Ash. tein. fibre. tract. Fat. Pet. Pet. Pet. Pet. Pet. 48.79 25.72 54.13 57.21 49.97 65.79 75.46 33.63 72.04 30.94 47.04 77.56 46.04 73.29 38.46 55.33 79.55 46.12 75.60 44.75 Pct. 54.83

Oat Straw 60.88 61.95



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SWEET CLOVER

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By P. J. Hollen Wie or becombined La sonion Leonel-

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2 2

in answer to the many inquiries received as to when where and how to sow sweet clover, or melilotus, the following will prove successful in this region:

When to Sow.—The best results are obtained by sowing in early spring as soon as the ground is dry and warm enough to put in condition for a good shallow seed-bed this latitude April 1 to 15, before spring rains. In the South where the rainfall is copious in winter, fall plowing will be better.

Where to Sow.—Any place on the farm, especially on the poor, worn-out spots, fence rows, ditches. It prevents erosion.

How to Sow. Preferably in a fine shallow seed-bed on a firm sub-soil. If sown before a rain it needs no harrowing Always cover very lightly, as deep seeding is unsuccessful. Corn stubble, or any ground cropped the preceding year, by discing and harrowing, putting the top two inches of soil in fine condition, is suitable for sowing. Always cover seed shallow. Without nurse crop preferred.

General Remarks.—With a favorable season and good stand it can be pastured without injury to the plant in about 10 weeks. The first season, pasture or cut crop of hay: the second season, pasture, hay or seed. It is most valuable as continuous pasture, when it will reseed itself without thought or care of the grower,

It will never bloat stock, horses, cattle, sheep or hogs, turned out at any time, even in rain or dew. A good stand will pasture 20 head of hogs to the acre. Ring the hogs. The bitter taste of sweet clover is caused by the presence of cumarin, which prevents the bloating. It does not affect flavor of milk. Sweet clover will thoroughly inoculate the land for alfalfa, as the bacteria of both plants are the same. Sow 12 to 15 pounds per acr

A Few Don'ts

Don't plow deep.

Don't sow deep.

Don't cut low in mowing—at least 6 inches high.

Don't have subsoil loose.

Don't be afraid to sow swe-t clover

Melilotus Alba for the Range

Mr. Stockman, as soon as you read this send for some seed of this Sweet Clover and just to get a start sow at the rate of one pound per acre all over your range. On any kind of soil. If not pastured too closely you will soon have a valuable range for your stock.

The same advice applies also to Smilo.

Sow also Burr Clover on heavy soil and Alfilaria on any kind of soil.

BURR CLOVER

Like Alfilaria is native to the southwest and thrives best on adobe soil, enduring considerable alkali. It starts growing as soon as the fall rains set in and with a minimum of rainfall such as we have in "dry years" it grows luxuriantly, bearing enormously of seed pods. When mature the whole plant drys, forming a mat of good cured forage relished by all stock. Per Ib. 40c postpaid.



Three 100-ton Silos I clonging to Mr. Greening Norwak. California. These Silos are Filled Fach Year With Sorghim and Corn to facte i citile.

MR. DAIR MAN, READ THIS THE SILO:

VILABOR-S AING CONVENUENCE VILABOR-S AING CONVENUENCE

ton words by the substitute of the substitute of the substitute when the silage is ready to the stock

24

BEST CROPS FOR THE SILO

Now that you have the silo you want to grow the first an instructurative cops.

Indian Corn heads the list as recommended by the Demont. Aggeler & Musser Seed Co have at all times end over the give their customers the best of everything, the active we make the following recommendations as to an easy of corn that will produce the most tonnage.

Branching corn for rich want. It grows more stem, norgalized, and more ears than any other variety of Indian contact the following used to the country of Indian contact to grow many more ears than any other variety of Indian contact to grow many more ears than any other variety of Indian contact the state of the tonnage the will produce. We king formerly of Ling Beach said in former's sweeter and on that account is to be preferred. Hickory king is an old favo the grid to beat. If for any reason which has a helpy of head to be at the former's sweeter and on that again to be at the state of the carries.

If you have only a said soit to many flighting done has big can.

For the sleet of many aways is contacted from the former beat and normal ways and normal surface the state of the state.

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Sudan Sorghum-The Wonller Forage Plant



Vanier

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SUDAN SORGHUM

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The count of the 180, state to be show or over Sunda a fining to Consumo and Stubbinson.

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to stone the color of the sile it is it is it is against a vsis. Our demonstration clearly additional to the contract of the sile it is it 18 40 (0) (10) (10) (10) (10) age flant will yield more than he ble the tonnage of all

other sorghum. Seed planted April 3rd the plants averaged six feet high on June 1st, on August 1st were 12 feet high and ready for the silo. Plants cut July 1st produced a good second crop. Its growth was not checked by the cold weather during April as were other sorghums growing beside it. Cultivate as a sorghum, 5 lbs of seed is sufficient for one acre. Price of seed. 60e per 1b. postpaid.

Mr. M. C. Connell planted seed in June. August 15th he made the first cutting. It stood ten to twelve feet high well headed. The tops a benit from dead of the warder of the multitude of stools, it easily leads other varieties in quality of grain, none of which is lost in narvesting, which was done with an alfally mover. About October 1st it will be ready for second outling, which he says, may be obtained the same mower by raising the lade. At Connell is also that it is the idea sorghum for the sile hecause is sweeter than non-saccharine and has less sugar contents in the green stalks to a late second of the Silver The Second Ribbo (c) in the second of Silver The Second Ribbo (c) in the Second Ribbo (c) in the Silver The Second Ribbo (c) in the Second Ribbo (c) in the Silver The Second Ribbo (c) in the Second Ribbo (c) in the Silver The Second Ribbo (c) in the Second Ribbo (c) in the Silver The Second Ribbo (c) in the



THE SIZE OF SLOTO BUILD

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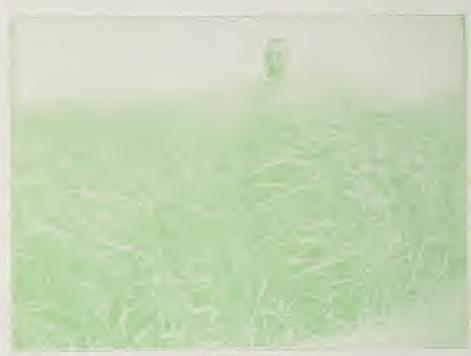
Based on 40 lbs. per cow

One ton of hay requires 500 cubic feet of storage space, while one ton of silage requires only 50 cubic feet.

The best dairymen feed about forty pounds of ensilage with two pounds each of bran and oil meal daily to each cow in order to secure the maximum milk production.

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JAPANESE SUGAR CANE

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BRANCHING CORN

The largest corn stalk you ever saw. Iwo ears on main stem and five branches with one ear on each branch.

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